

Product datasheet for **RG208013**

p63 (TP63) (NM_003722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p63 (TP63) (NM_003722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	p63
Synonyms:	AIS; B(p51A); B(p51B); EEC3; KET; LMS; NBP; OFC8; p40; p51; p53CP; p63; p73H; p73L; RHS; SHFM4; TP53CP; TP53L; TP73L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG208013 representing NM_003722
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTTTGAACCTTCACGGTGTGCCACCTACAGTACTGCCCTGACCCTTACATCCAGCGTTTCGTAG
AAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATGTCCCAGAGCACACAGACAAA
TGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATATGTTCAAGTTCAG
CCCATTGACTTGAACCTTGTGGATGAACCATCAGAAGATGGTGCACAAACAAGATTGAGATTAGCATGG
ACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTCCT
GAACAGCATGGACCAGCAGATTCAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAG
AACAGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCCATCACCCG
CCATCCCTCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGCTCTTCAGCAGTCGAGCACCCG
CAAGTCGGCCACCTGGACGTATCCACTGAACTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCC
ATCCAGATCAAGGTGATGACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAAG
CTGAGCACGTACGGAGGTGGTGAAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTCAACGAGGGACA
GATTGCCCTCCTAGTCAATTTGATTTCGAGTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATC
ACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGGTTGGCACTGAATTCACGACAGTCTTGT
ACAATTTTCATGTGAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCAATTTTAACTATTGTTACTCT
GGAAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAGA
GACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGACAGTACAAAGAACGGTATGGTA
CGAAGCGCCCGTTTCGTCAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCAGA
TGATGAACTGTTATACTTACCAGTGAGGGCCGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCC
CTGGAACCTCATGCACTACCTTCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAGCAGCACC
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CAAAATGAACAGCATGAACAAGTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTC
ACTCCTACAACCATTCCTGATGGCATGGGAGCCAAACATCCCATGATGGCACCCACATGCCAATGGCTG
GAGACATGAATGGACTCAGCCCCACCCAGGCACTCCCTCCCCACTCTCCATGCCATCCACCTCCCCTG
CACACCCACCTCCGTATCCCACAGATTGCAGCATTGCAGTTTCTTAGCGAGGTTGGGCTGTTTCATCA
TGTCTGGACTATTTACGACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATC
TGGCAAGTCTGAAAATCCCTGAGCAATTTTCGACATGCGATCTGGAAGGGCATCCTGGACCACCGGAGCT
CCACGAATTTCTCCCTTCTCATCTCCTGCGGACCCCAAGCAGTGCCTCTACAGTCAGTGTGGGCTCC
AGTGAGACCCGGGGTGGCGTGTATTGATGCTGTGCGATTACCCCTCCGCCAGACCATCTTTTCCCAC
CCCAGATGAGTGGAAATGACTTCAACTTTGACATGGATGCTCGCCGAATAAGCAACAGCGCATCAAAGA
GGAGGGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208013 representing NM_003722
 Red=Cloning site Green=Tags(s)

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  MNFETSRCATLQYCPDPYIQRVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVFQHIWDFLEQPICSVQ
  PIDLNFVDEPSEDGATNKIEISMDCIRMQDSDLSDPMWPQYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQ
  NSVTAPSPYAQPSSTFDALSPSPAIPSNTDYPGPHSFDVVSFQSSSTAKSATWTYSTELKKLYCQIAKTCP
  IQIKVMTPPPQGAVIRAMPVYKKAHEHVTEVVKRCPNHEL SREFNEGQIAPPSHLIRVEGNSHAQYVEDPI
  TGRQSVLVPYEPQVGFTEFTTVLYNFMCNSSCVGGMNRRPILIIIVTLETRDQVLGRRCFEARICACPGR
  DRKADEDSIRKQVSDSTKNGDGTKRPFQNTHTGIQMTSIIKRRSPDELLEYLPVRGRETYEMLLIKES
  LELMQYLPQHTIETYRQQQQQHQLLQKQTSIQSPSSYGNSPPLNKMNSMKNLPSVSQLINPQQRNAL
  TPTTIPDGMGANIPMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPPPPYPTDCSIVSFLARLGCSS
  CLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKGILDHRQLHEFSPPSHLLRTPSSASTVSVGS
  SETRGERVIDAVRFTLRQTI SFPPRDEWDFNFDMDARRNKQQR IKEEGE
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003722

ORF Size: 2040 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_003722.5](#)

RefSeq Size: 4932 bp

RefSeq ORF: 2043 bp

Locus ID: 8626

UniProt ID: [Q9H3D4](#)

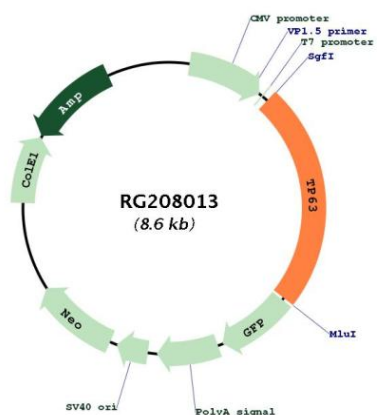
Cytogenetics: 3q28

Domains: SAM, P53

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the p53 family of transcription factors. The functional domains of p53 family proteins include an N-terminal transactivation domain, a central DNA-binding domain and an oligomerization domain. Alternative splicing of this gene and the use of alternative promoters results in multiple transcript variants encoding different isoforms that vary in their functional properties. These isoforms function during skin development and maintenance, adult stem/progenitor cell regulation, heart development and premature aging. Some isoforms have been found to protect the germline by eliminating oocytes or testicular germ cells that have suffered DNA damage. Mutations in this gene are associated with ectodermal dysplasia, and cleft lip/palate syndrome 3 (EEC3); split-hand/foot malformation 4 (SHFM4); ankyloblepharon-ectodermal defects-cleft lip/palate; ADULT syndrome (acrodermato-ungual-lacrimal-tooth); limb-mammary syndrome; Rap-Hodgkin syndrome (RHS); and orofacial cleft 8. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG208013